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Index No. | | | | | | – | |

MINISTRY OF EDUCATION, SINGAPORE
PRIMARY SCHOOL LEAVING EXAMINATION

0008/1 (A)

PSLE
30 SEPTEMBER 2016

MATHEMATICS
PAPER 1
(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS)

Total Time for Booklets A and B : 50 min

INSTRUCTIONS TO CANDIDATES

1. Write your Index No. in the boxes at the top right hand corner.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. The use of calculators is **NOT** allowed.

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Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.
(20 marks)

---

1 What does the digit 9 in 7.698 stand for?

(1) 9 ones

(2) 9 tenths

(3) 9 hundredths

(4) 9 thousandths

2 Junhao paid \$15 for 30 identical stamps. What was the cost of each stamp?

(1) 5¢

(2) 2¢

(3) 20¢

(4) 50¢

3 Which of the following is equal to $3\frac{5}{6}$?

(1) $\frac{15}{6}$

(2) $\frac{21}{6}$

(3) $\frac{23}{6}$

(4) $\frac{35}{6}$

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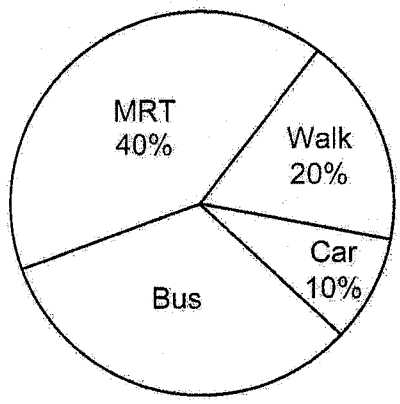
4 The pie chart shows the different ways a group of students go to school. What is the ratio of the number of students who walk to school to the number who go by bus?

(1) 1 : 2

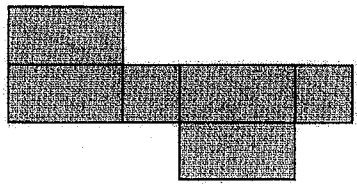
(2) 2 : 1

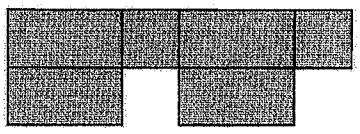
(3) 2 : 3

(4) 3 : 2

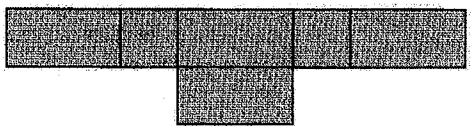


5 Which of the following is a net of a cuboid?

(1) 

(2) 

(3) 

(4) 

(Go on to the next page)

6 In the scale below, what is the value of X?

(1) 6.3

(2) 6.6

(3) 6.03

(4) 6.06

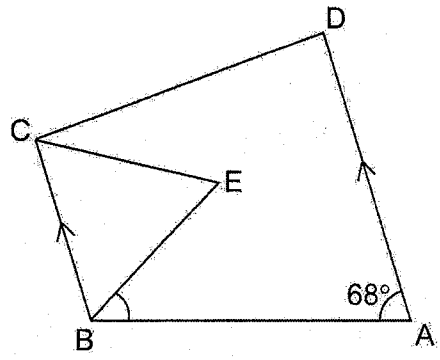
7 In the figure, BCE is an equilateral triangle. ABCD is a trapezium with AD parallel to BC. $\angle DAB = 68°$. Find $\angle ABE$.

(1) 52°

(2) 56°

(3) 60°

(4) 68°



8 By rounding each of the numbers to the nearest whole number, estimate the value of:

$$29.5 + 60.4 \times 9.87$$

(1) 570

(2) 630

(3) 810

(4) 900

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9 Which one of the following fractions is nearest to $\frac{1}{2}$?

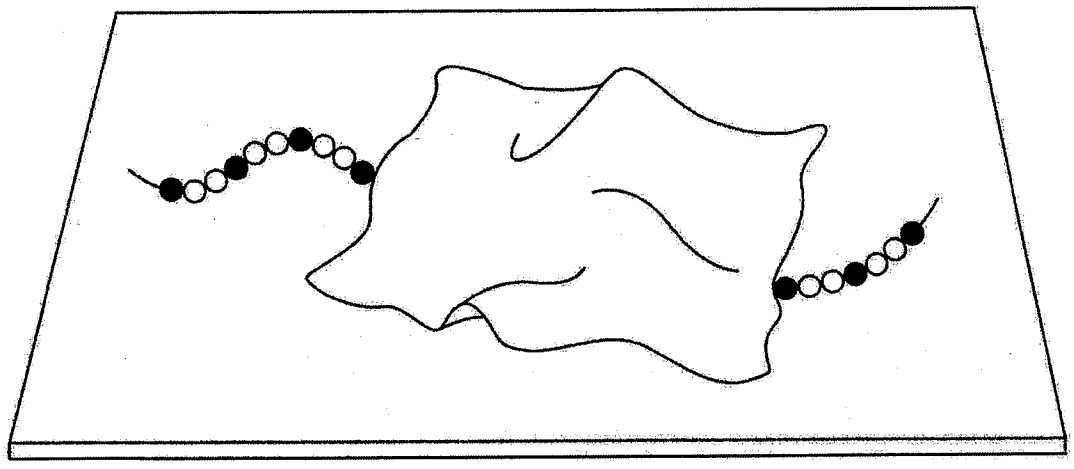
(1) $\frac{3}{4}$

(2) $\frac{3}{5}$

(3) $\frac{3}{7}$

(4) $\frac{3}{8}$

10 A string of beads on a table is partly covered by a piece of cloth as shown. There are 2 white beads between every 2 black beads. Altogether, there are 14 black beads. What is the total number of white beads?



(1) 24

(2) 26

(3) 28

(4) 30

(Go on to the next page)

11 A rope of length 7.2 m was cut into three pieces. The first piece was 3 times as long as the second piece. The second piece was twice as long as the third piece. How long was the second piece?

(1) 1.2 m

(2) 1.6 m

(3) 1.8 m

(4) 2.4 m

12 A shop gave a discount of $5 for every $30 spent. Mrs Tan bought a jacket and paid $81. What was the price of the jacket before the discount?

(1) $71

(2) $86

(3) $91

(4) $96

13 Mr Li travelled 2.8 km in a taxi from home to his office. His taxi fare was based on the charges shown below.

First km	$3.60
Every additional 400 m or less	$0.22

How much was his taxi fare?

(1) $4.04

(2) $4.48

(3) $4.70

(4) $5.14

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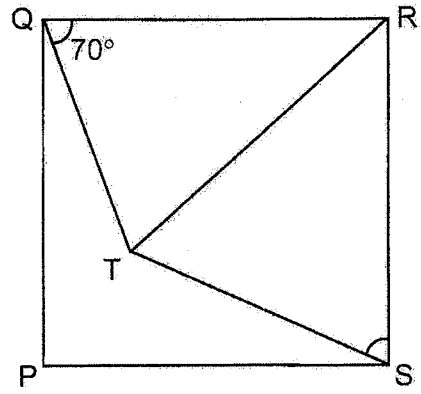
14 In the figure, PQRS is a square, QR = TR and ∠TQR = 70°. Find ∠RST.



(1) 50°

(2) 55°

(3) 65°

(4) 70°

15 A machine started printing posters at 9.00 a.m. on Monday at the rate of 1000 posters per hour. After every 6 hours of printing, it was stopped for an hour. How many posters were printed by 11.00 a.m. the next day?

(1) 20 000

(2) 22 000

(3) 23 000

(4) 26 000

(Go on to Booklet B)

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Index No. | | | | | | – | |

MINISTRY OF EDUCATION, SINGAPORE
PRIMARY SCHOOL LEAVING EXAMINATION

0008/1 (B)

PSLE
30 SEPTEMBER 2016

MATHEMATICS
PAPER 1
(BOOKLET B)

Total Time for Booklets A and B : 50 min

INSTRUCTIONS TO CANDIDATES

1. Write your Index No. in the boxes at the top right hand corner.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of calculators is **NOT** allowed.

FOR MARKERS' USE

Question No.	Marker ID	
	Marker 1	Marker 2
16 – 19		
20 – 22		
23 – 25		
26 – 27		
28 – 29		
30		

FOR CSM / SM / ASM's USE

Supervisor ID / Signature

FOR RECORDER'S USE

Total Mark	Max Mark	Recorder ID / Signature
	20	

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Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

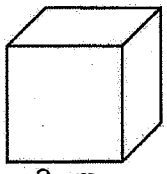
16 Write one million and two thousand in numerals.

Ans: _____

17 Find the value of $\frac{7}{12} - \frac{1}{8}$

Ans: _____

18 What is the volume of the cube shown below?



Ans: _____ cm^3

19 Express 0.3% as a fraction.

Ans: _____

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20 Part of a tessellation is shown below. Extend the tessellation by drawing two more unit shapes within the grid.

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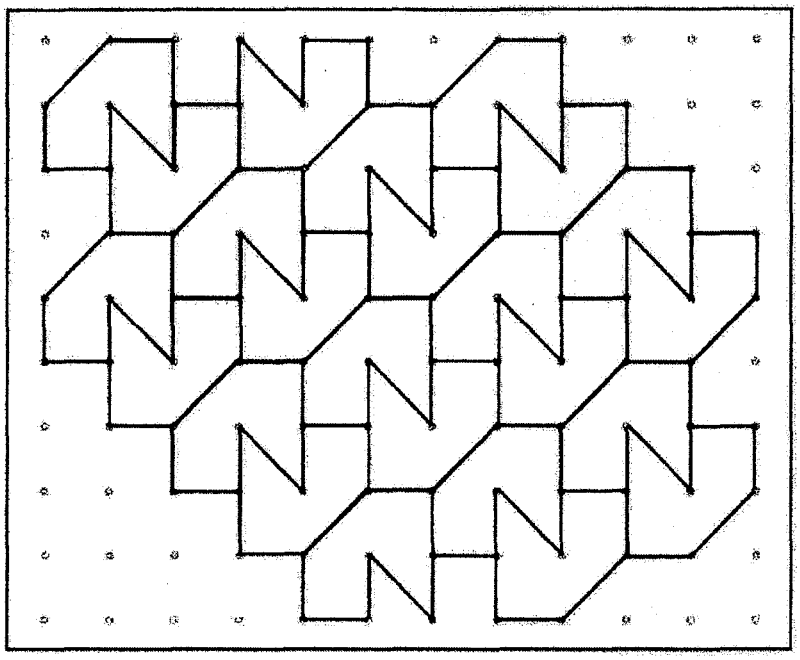
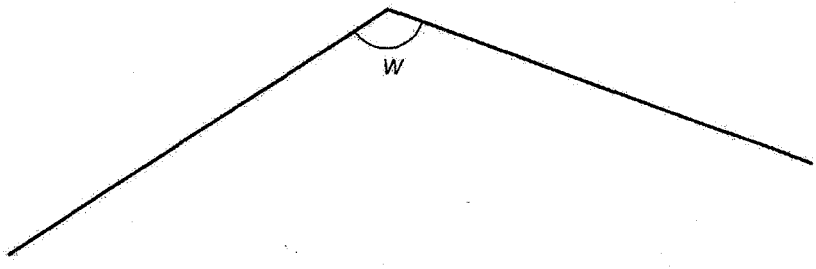


21 Measure and write down the size of $\angle w$ in the figure.



Ans: _____ °

22 Gopal took 40 minutes to complete a journey at an average speed of 72 km/h. What was the distance he travelled?

Ans: _____ km

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(Go on to the next page)

23 There are 6 shaded squares in the figure. Shade 3 more squares to form a symmetric figure with AB as the line of symmetry.

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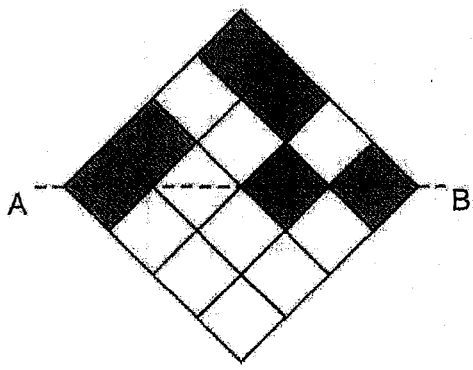
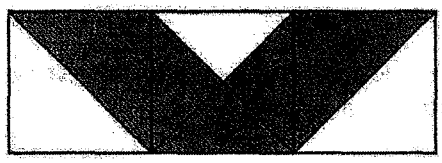


24 Write down all the common factors of 12 and 27.

Ans: _____

25 The figure is made up of 3 squares. What fraction of the figure is shaded?



Ans: _____

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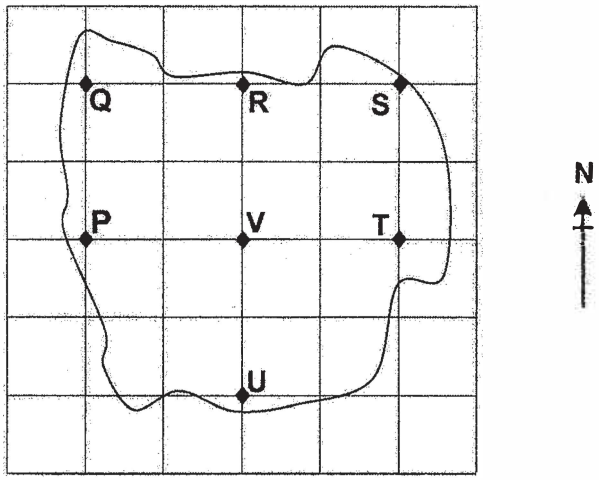
Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

26 Find the value of $\frac{15k}{2} - 3k + 1$ when $k = 4$.

Ans: _____

27 Seven landmarks on a map of an island are shown in the square grid below.



(a) In which direction is P from U?

(b) Weili is at one of the landmarks. She is facing V. When she turns 90° clockwise, she faces Q. Which landmark is Weili at?

Ans: (a) _____

(b) _____

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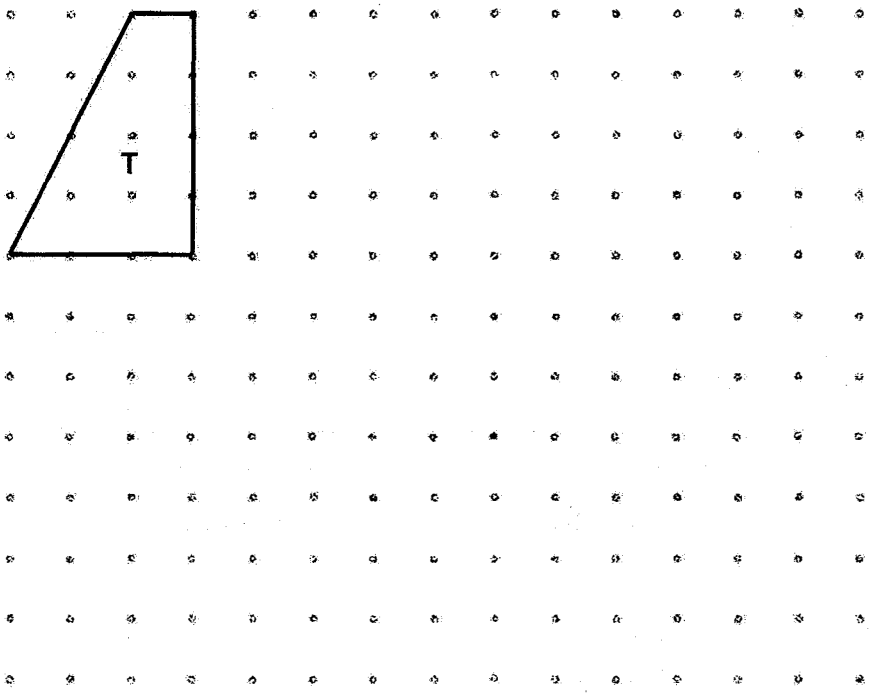
(Go on to the next page)

28 A trapezium **T** is drawn by joining dots on the square grid below with four straight lines. In the same way,

(a) draw a rectangle with twice the area of **T**. Label the rectangle **R**.

(b) draw a parallelogram with the same perimeter as **T**. Label the parallelogram **P**.



Do not write in this space

29 The average of three **different** 2-digit numbers is 25. Of the three numbers, find the largest possible number.

Ans: _____

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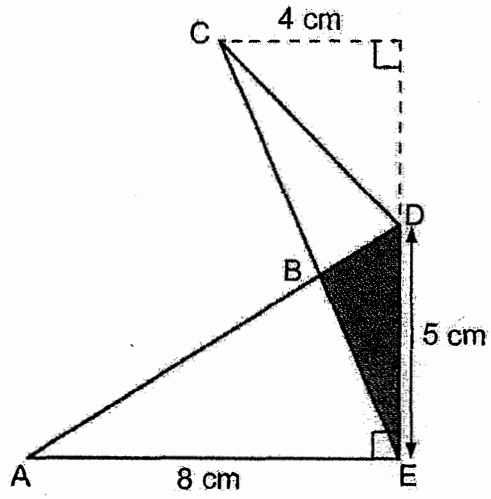
30 Figure ABCDE has an area of 26 cm^2. ABD and CBE are straight lines. Find the area of the shaded triangle BDE.

Do not write in this space



Ans: _____ cm^2

End of Paper

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Index No. | | | | | | – | |

MINISTRY OF EDUCATION, SINGAPORE
PRIMARY SCHOOL LEAVING EXAMINATION

0008/2

PSLE
30 SEPTEMBER 2016

MATHEMATICS
PAPER 2

Time: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

1. Write your Index No. in the boxes at the top right hand corner.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of an approved calculator is expected, where appropriate.

FOR MARKERS' USE

Question No.	Marker ID	
	Marker 1	Marker 2
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		

FOR CSM / SM / ASM's USE

Supervisor ID / Signature

FOR RECORDER'S USE

Total Mark	Max Mark	Recorder ID / Signature
	60	

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Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

1 A mixed fruit juice is made using 600 ml of orange juice and 1 litre of apple juice. To make 4 litres of the mixed fruit juice, how many litres of orange juice will be needed?

Ans: _____ ℓ

2 A pen costs \$2 more than a ruler. The total cost of 4 such pens is \$$y$.

(a) Express the cost of 12 such pens in terms of y.

(b) Express the cost of a ruler in terms of y.

Ans: (a) \$ _____

(b) \$ _____

3 The number of visitors to a museum was 9000 in August. This was a 20% increase from the number in July. How many visitors were there in July?

Ans: _____

(Go on to the next page)

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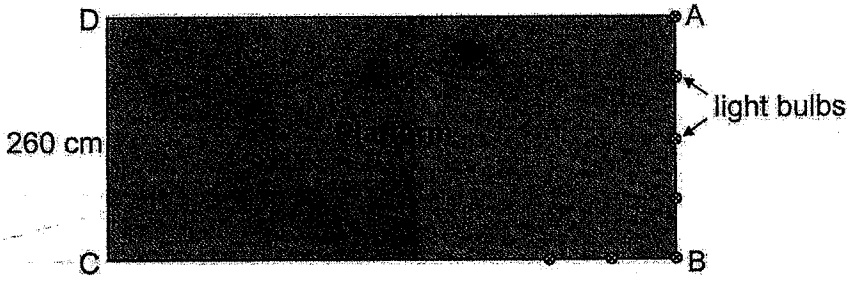
4 Four girls shared the cost of a cake equally. When calculating the amount for each share, one of the girls made a mistake by dividing the cost of the cake by 3 instead of 4. Each girl paid $2.40 more than her share. What should be the correct amount for each share?

Do not write in this space

Ans: $ _____

5 A total of 18 light bulbs are set up at an equal distance apart along three sides AB, BC and CD of a rectangular platform. The figure shows part of the set-up. The breadth of the platform is 260 cm. What is the length of the platform?



Ans: _____ cm

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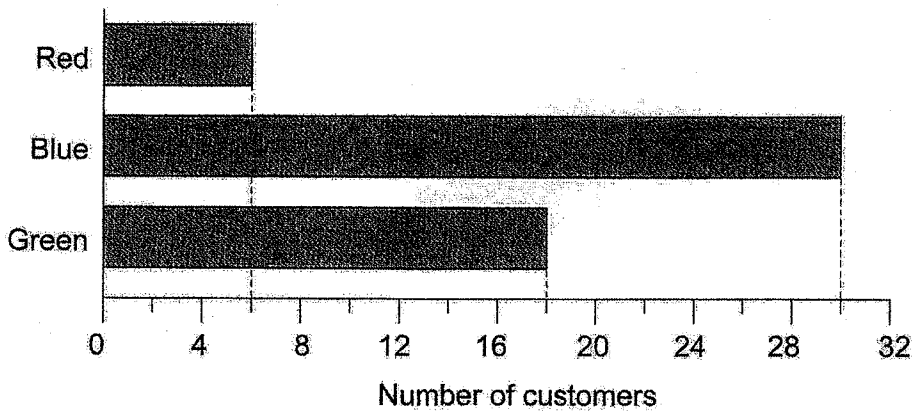
For questions **6** to **18**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this space

6 Mr Yip asked some customers to choose their favourite colour for a T-shirt. The results are shown in the graph below.



(a) What is the ratio of the number of customers who chose red to the number who chose blue to the number who chose green?

(b) Mr Yip ordered a total of 630 T-shirts in the three colours according to the same ratio in part (a). How many more blue than red T-shirts were ordered?

Ans: (a) _____ [1]

(b) _____ [2]

(Go on to the next page)

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7 In the figure, ABCD is a parallelogram and DEFG is a rhombus. CDE is a straight line. ∠ABC = 51°, ∠GAD = 25° and ∠FGE = 35°.

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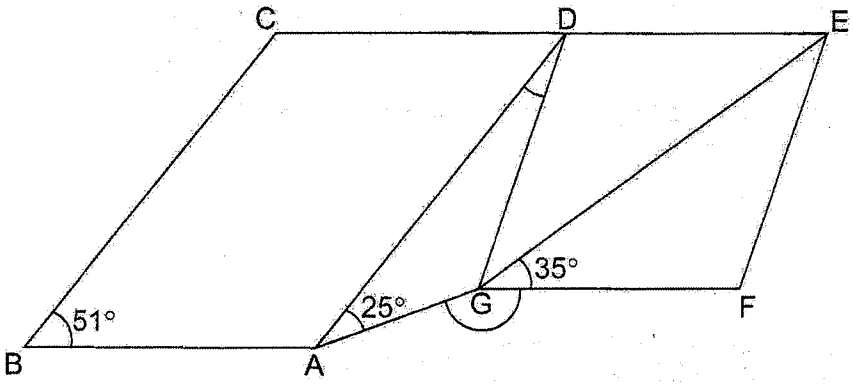

(a) Find ∠ADG.

(b) Find ∠AGF.

Ans: (a) _____ [2]

(b) _____ [2]

8 Claire was given a job to make 200 toys. She made 8 toys each day from Monday to Friday and 15 each day on Saturday and Sunday. Starting on a Friday, on which day of the week did Claire complete the job?

Ans: _____ [3]

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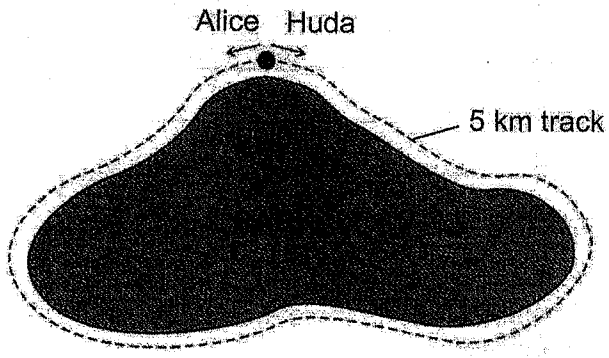
9 Alice and Huda started jogging from the same point of a 5 km track round a park. They started at the same time but in opposite directions. Alice jogged past Huda after 2 km. Both of them did not change their speeds throughout.

Alice took 40 min to complete one round. What was Huda's jogging speed in m/min?

Do not write in this space



Ans: _____ [3]

10 Rudi, Sam and Ted had 162 stickers altogether. Rudi gave $\frac{3}{10}$ of his stickers to Sam and $\frac{1}{4}$ of his stickers to Ted. After that, all three boys had the same number of stickers. Who had more stickers at first, Sam or Ted, and how many more?

Ans: Name of boy: _____

_____ more stickers [3]

(Go on to the next page)

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11 Four teams of students washed cars for charity. They collected $10 for washing a small car and $15 for a big car. The table shows the number of cars washed by three of the teams.

Do not write in this space

Team	Number of cars washed	
	Small	Big
A	15	5
B	11	9
C	8	10

(a) Which of the three teams collected the most money? What was the amount of money?

(b) Team D washed as many cars as Team A but collected $30 more. How many big cars did Team D wash?

Ans: (a) Team: _____

Amount: _____ [2]

(b) _____ [2]

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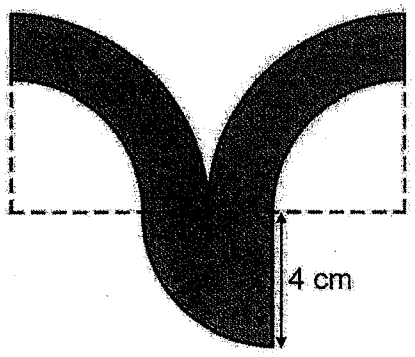
12 The outline of the shaded figure below is formed by 3 identical small quarter circles, 2 identical large quarter circles and 3 straight lines.

Do not write in this space



(a) What is the radius of the large quarter circle?

(b) Find the perimeter of the shaded figure.

Take $\pi = 3.14$

Ans: (a) _____ [1]

(b) _____ [3]

(Go on to the next page)

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13 The participants of a quiz are divided equally into two groups. In the first group, there are 20 more boys than girls. In the second group, there are 12 more girls than boys. 45% of all the participants are girls.
How many participants are boys?

Do not write in this space

Ans: _____ [3]

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Do not write in this space

14 Suyin baked some pies. She gave $\frac{1}{5}$ of them to her relatives and 30 of them to her friends. She was left with $\frac{2}{3}$ of the pies. She packed these into 18 boxes. Some boxes contained 6 pies while the rest contained 12.

(a) How many pies were packed into the 18 boxes?

(b) How many boxes contained 6 pies?

Ans: (a) _____ [3]

(b) _____ [2]

15 A rectangular block X was cut along the dotted line into two smaller rectangular blocks of equal height, Y and Z, as shown below.
The volume of Z is 1470 cm^3 more than that of Y.

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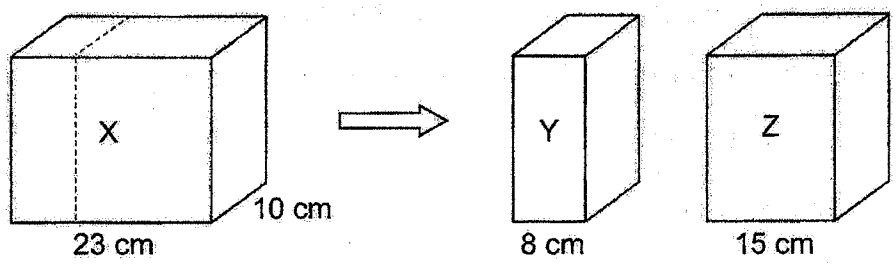

(a) What is the height of each block?

(b) Peter packed 6 of block Z such that they fit exactly into a box with a square base. The box has the same height as Z. At most, how many of block Y can be packed into such a box?

Ans: (a) _____ [2]

(b) _____ [3]

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16 A caterer prepares chicken wings for some people attending a barbeque.
The ratio of the number of adults to the number of children attending is 2 : 3.
Among the children, the ratio of the number of girls to that of boys is 4 : 1.
A total of 210 chicken wings are prepared so that each adult gets 4 chicken wings and each child gets 2.

Do not write in this space

(a) What fraction of the people attending the barbeque are boys?

(b) How many children are attending the barbeque?

Ans: (a) _____ [1]

(b) _____ [3]

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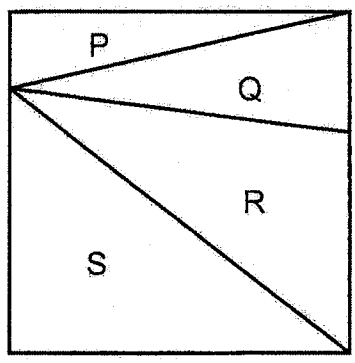
Do not write in this space

17 A square is made up of four triangles P, Q, R and S. The area of P is $\frac{1}{9}$ the area of the square while the area of Q is $\frac{1}{6}$ the area of the square.



(a) The total area of P and Q is 10 cm^2. What is the length of each side of the square?

(b) What fraction of the square is S?

Ans: (a) _____ [3]

(b) _____ [2]

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18 Yasmin uses triangles and circles to form figures that follow a pattern as shown below.

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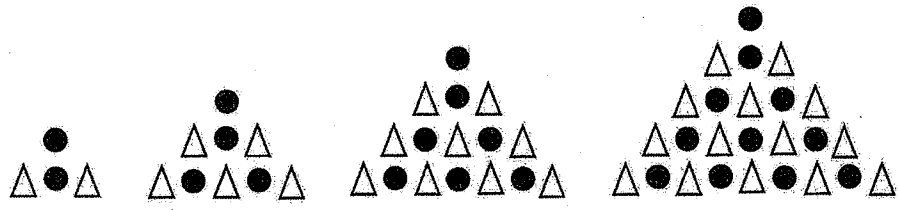

Figure 1 Figure 2 Figure 3 Figure 4

(a) The table shows the number of triangles and circles for the first four figures. Complete the table for Figure 5.

Figure Number	**1**	**2**	**3**	**4**	**5**
Number of triangles	2	5	9	14	
Number of circles	2	4	7	11	
Total number of triangles and circles	4	9	16	25	

[1]

(b) A figure in the pattern has a total of 100 triangles and circles. What is the Figure Number?

(c) Another figure in the pattern has 50 more triangles than circles. What is the total number of triangles and circles in this figure?

Ans: (b) Figure _____ [1]

(c) _____ [2]

End of Paper

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